

**Development and Characterization of a CCD Camera System for use on
Six Inch Manipulator Systems***

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ABSTRACT

We have constructed a small compact CCD camera system for use on a Six Inch Manipulator (SIM). The unit's electronic package is constructed with surface mount technology, reducing the size of the over all camera system. The camera system has been design to directly replace the 35 mm film packages on all active SIM based diagnostics. We will discuss the dynamic range and spatial resolution of the CCD system and factors that limit the CCD's performance. We will also discuss limiting factors as they relate to fielding such devices in SIM type devices.

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